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Sent: Tuesday, November 20, 2018 9:54
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Subject: OCWD PFAS Results for Irvine Subbasin
Attachments: El Toro MCAS_PFOA-PFOS_11-19-18.pdf
Signed By: GUY.CHAMMAS@NAVY.MIL

BCT Members:

One of the action items from our BCT core meeting on 14 November was to request permission from Orange County Water District (OCWD) to disseminate its results for PFAS sampling of groundwater in the Irvine Subbasin for your situational awareness. Roy Herndon (copied) indicated that the Navy could share OCWD results, so I have attached the most recent figure with the data. As discussed, the Navy is currently formulating a strategy to conduct additional groundwater sampling for PFAS, taking into account the results from its basewide assessment conducted in July 2017, follow-on sampling at 18BGMP06 and 18BGWM19, existing OCWD data from the Irvine Subbasin, and ongoing discussions the Navy is having with both OCWD and Irvine Ranch Water District. The Navy will continue to keep you apprised of its progress and solicit your input along the way.

Contractually, the Navy currently has capacity to collect and analyze up to 20 more samples, and it is anticipated that most if not all of these additional samples will be collected in March 2019 concurrently with the regular monitoring for VOCs being conducted at IRP Sites 18 and 24. The Navy is also planning to execute a contract modification to allow for additional capacity for PFAS sampling in the future, should it be necessary.

A few things to point out based on the data currently available:

1. The closest drinking water production well to Former MCAS El Toro is (b) (9) . It has been sampled twice over the past couple of years with no detections. Drinking water is not impacted.

2. 18MCAS01 has not been sampled to date. The Navy will consider sampling one or more ports (there are 7 total) in March 2019 to fill this data gap.

3. Previous Navy results indicate the highest PFOA+PFOS concentrations in groundwater occur along the westernmost boundary of Former MCAS El Toro near the Shallow Groundwater Unit Transfer Station. The closest off-Station results are from 18MCAS02, approximately 3,000 feet downgradient. The Navy is considering collecting samples from monitoring wells 24MW16 and 24MW17, located between the westernmost boundary of Former MCAS El Toro and 18MCAS02, to fill this data gap.

4. The Navy is considering collecting additional PFAS samples upgradient of the westernmost boundary of Former MCAS El Toro in an attempt to better identify potential source areas. There are numerous monitoring and extraction well locations to choose from.

5. There is a data gap downgradient of the distal end of the IRP Site 18 TCE plume. Previous results show PFOA+PFOS concentrations up to 242 parts per trillion (ppt) at 18MCAS07. 18MCAS08 is located downgradient of the IRP Site 18 TCE plume, but it was recently destroyed because OCWD was unable to clear one or more obstructions in the well. OCWD is working with Irvine Unified School District to construct a replacement well on its property. It should be pointed out that IRP Site 18 extraction wells ET-2 and IRWD-78R, which are used to maintain TCE plume capture, have both been tested for PFOA+PFOS with no detections above 19 ppt.

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